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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/683,853		10/10/2003	James I. Percival	1348/110	1765
2101	7590	01/14/2005		EXAMINER	
		JNSTEIN LLP	NAMAZI, MEHDI		
125 SUMMER STREET BOSTON, MA 02110-1618				ART UNIT	PAPER NUMBER
				2188	
				DATE MAIL ED: 01/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/683,853	PERCIVAL				
		Examiner	Art Unit				
		 Mehdi Namazi	2188				
	The MAILING DATE of this communication						
Period fo	or Reply						
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication a period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some reply received by the Office later than three months after the new patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a reply b t. a reply within the statutory minimum of thirty (30) briod will apply and will expire SIX (6) MONTHS f tatute, cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 2	9 September 2004.					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)□							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)[⊠	☑ Claim(s) <u>1-17</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) 1-17 is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
9)□	The specification is objected to by the Exan	niner					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
. • / ـ	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the	=					
Priority ι	ınder 35 U.S.C. § 119						
	-	eign priority under 35 U.S.C. & 110	(a)-(d) or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
۵,1	1. Certified copies of the priority documents have been received.						
	Certified copies of the priority docum		ation No				
	3. Copies of the certified copies of the	• •					
	application from the International Bu	•					
* 5	See the attached detailed Office action for a	, ,,	ived.				
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) 🔲 Interview Summ	ary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	l Date				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date <u>11/10/2004</u> .	(708) 5) Notice of Information (708) Other:	al Patent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claim 1-17 have been considered but are most in view of the new ground(s) of rejection.
- 2. The terminal disclaimer filed on 9/29/2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of patent No. 6,370,615 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Declaration

3. The declaration under 37 CFR 1.132 filed 11-10-2004 is insufficient to overcome rejection based on Super Cache V1.2 User and Installation Guide A Turbo Ware Product (Revision/update Information V1.2-08; Turbo System International S.A.) as set forth in this office action because:

Applicant has provided an copy of the License Agreement and cited section 5 of the Agreement (see the Declaration filed 7-18-97 at paragraph 6). However, the License Agreement is not itself determinative of the public use issue, but is one factor to be considered along with the time, place and circumstances of the use which show the amount of control the inventor retained over the invention. In this regard see MPEP & 2133.03(a)(ii). There is no evidence showing the amount of control that the inventor retained over the invention or the SuperCache Guide as part of the licensing agreement.

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Furthermore, the reference "EEC ups ante in VMS disk caching arena with three-tiered package for VAXclusters" (Digital Review, March 16, 1992, v9 n6 p6(1)) appears to indicate that EEC had introduced a network version of the "SuperCache" product by March 1992. This appears to contradict paragraph 3 of the declaration filed 7-18-97, and current declaration filed 11-10-2004. Comment and explanation is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3, and 6, are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

As per claims 1, and 6, "maintaining exclusive write access control over the specifically addressed data in the cached I/O device" is not supported by the specification.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 4, 5, 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by the I/O Express Software Product (as thought by the I/O Express User's Guide and the I/O Express Technical Report) from Express software, Glendale, CA.

As per claims 4, and 9, I/O Express teaches connection of a plurality of nodes in a clustered system. Each node contains a computer and has its own memory and cache ("a plurality of computers…each computer having a memory"). See "Reports", SPO TR 92.32 (16 Sept 19992) at page 5. the nodes of the cluster interact together and share resources, such as disk and tape storage facilities ("plurality of I/O devices……"). See "reposts" SPO TR 92.32 (16 Sept 1992) at page 5.

As per claims 5, 10, 11, 12, "Guide" teaches at page 2-6, when "a node joins the V Axcluster, caching cluster-wide is disabled automatically until I/O Express on the new node". "Guide" also teaches on page 2-8 that when caching is disabled for all disks in the system (/DCOFF_SYS) or cluster ("DCOFF_CLU), that the cache is purged ("invalidated"). Therefore, when a new node (computer") is added to the cluster ("network"), the caching on other nodes is disabled, and the data in the caches on other nodes is purged ("invalidated").

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 7, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the I/O Express Software Product (as thought by the I/O Express User's Guide and the I/O Express Technical Report) from Express software, and further in view of Supercache V1.2 User and Installation Guide A TurboWare Product (Revision/Update Information V1.2-08; Turbo System International S.A.).

As per claims 7, 13, I/O Express teaches connection of a plurality of nodes in a clustered system. Each node contains a computer and has its own memory and cache ("a plurality of computers...each computer having a memory"). See "Reports", SPO TR 92.32 (16 Sept 19992) at page 5. the nodes of the cluster interact together and share resources, such as disk and tape storage facilities ("plurality of I/O devices......"). See "reposts" SPO TR 92.32 (16 Sept 1992) at page 5, "Guide" teaches at page 2-6, when "a node joins the V Axcluster, caching cluster-wide is disabled automatically until I/O Express on the new node". "Guide" also teaches on page 2-8 that when caching is disabled for all disks in the system (/DCOFF_SYS) or cluster ("DCOFF_CLU), that the cache is purged ("invalidated"). Therefore, when a new node (computer") is added to the cluster ("network"), the caching on other nodes is disabled, and the data in the caches on other nodes is purged ("invalidated").

As per claims 7, 8,13, I/O Express does not teach a plurality of caches each being of a different data bucket size. Supercache teaches utilizing three caches ("data buckets") and qualifiers for the different caches in the cache start command (page 4-3, section 4.2.2.1.1. it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize a plurality of caches and associated qualifiers

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for the different caches, as taught by Supercache, because Supercache teaches in the first line of section 4.2.2.1.1 that three caches is more efficient instead of a less effective single cache.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mehdi Namazi whose telephone number is 571-272-4209. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on 571-272-4210. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Hans Kehranolda

Mehdi Namazi/ January 9, 2005

MANO PADMANABHAN SUPERVISORY PATENT EXAMINER